

## International Office

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**Research Use Only. Not for  
diagnostic or therapeutic use.**

## EB11875 - Goat Anti-AP2A1 (aa706-727) Antibody

Size: 100µg specific antibody in 200µl



### Target Protein

**Principal Names:** AP2A1, adaptor-related protein complex 2, alpha 1 subunit, ADTAA, AP2-ALPHA, CLAPA1, 100 kDa coated vesicle protein A, AP-2 complex subunit alpha-1, adapter-related protein complex 2 alpha-1 subunit, adaptin, alpha A, adaptor protein complex AP-2 subunit alpha-1, alpha-adaptin A, alpha1-adaptin, clathrin assembly protein complex 2 alpha-A large chain, clathrin-associated/assembly/adaptor protein, large, alpha 1, plasma membrane adaptor HA2/AP2 adaptin alpha A subunit

**Official Symbol:** AP2A1

**Accession Number(s):** NP\_055018.2

**Human GeneID(s):** [160](#)

**Non-Human GeneID(s):** 11771 (mouse), 308578 (rat)

**Important Comments:** This antibody is expected to recognize reported isoform 1 (NP\_055018.2) only.

### Immunogen

Peptide with sequence C-ELEPPAPESPMALLADPAPAAD, from the internal region of the protein sequence according to NP\_055018.2.

Please note the [peptide](#) is available for sale.

### Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

### Applications Tested

**Peptide ELISA:** antibody detection limit dilution 1:128000.

**Western blot:** Approx 110kDa band observed in Human Brain (Frontal cortex) lysates (calculated MW of 108kDa according to NP\_055018.2). Recommended concentration: 0.03-0.1µg/ml. Primary incubation was 1 hour.

**IHC:** Paraffin embedded Human Brain (Cerebellum). Recommended concentration: 5-7µg/ml.

### Species Reactivity

**Tested:** Human

**Expected from sequence similarity:** Human, Mouse, Rat, Pig, Cow

### Specific References

**This antibody (previous batch) has been successfully used in IF on Human:**

Dominik P Buser, Gaétan Bader, Martin Spiess

Retrograde transport of CDMPR depends on several machineries as analyzed by sulfatable nanobodies.

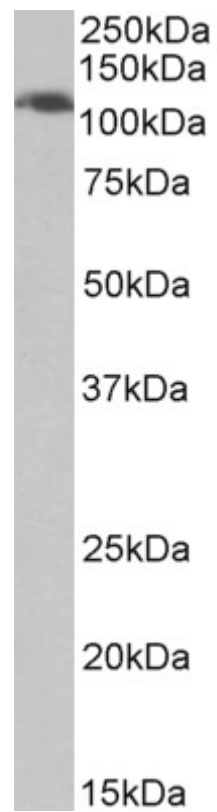
Life Sci Alliance. 2022 Jul; 5(7): e202101269.

PMID: 35314489

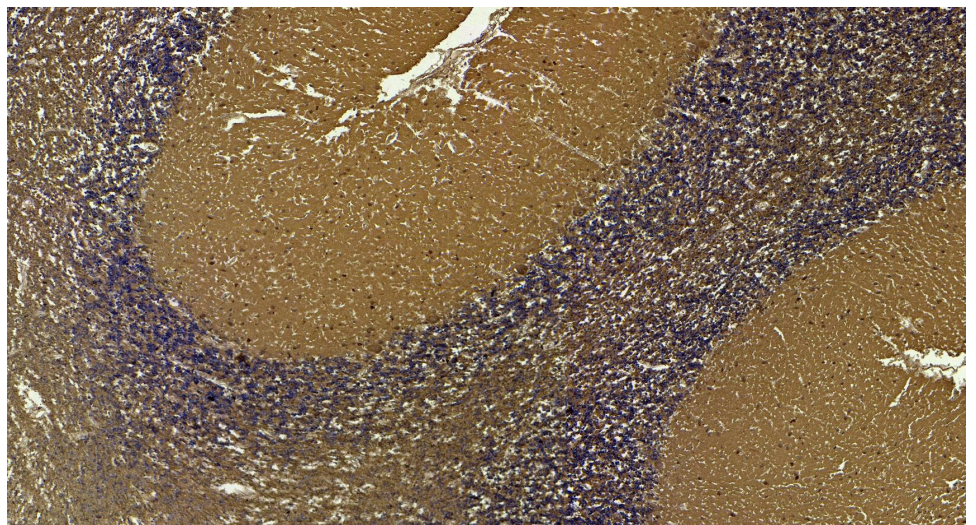
**This antibody (previous batch) has been successfully used in Western blot on Human:**

Dominik Pascal Buser, Marie-Françoise Ritz, Suzette Moes; Cristobal Tostado, Stephan

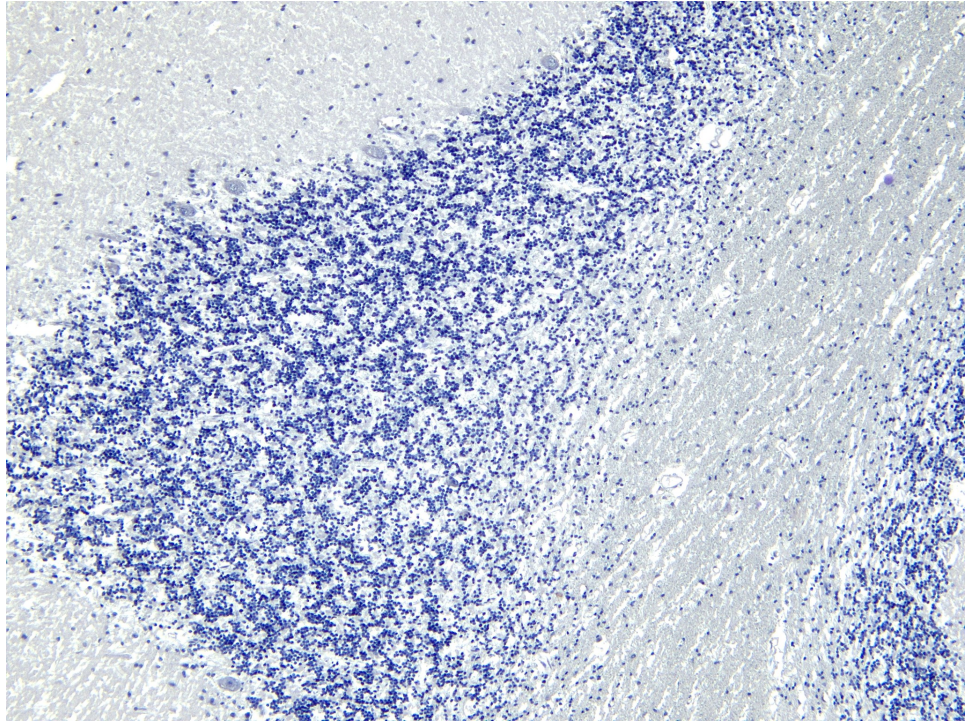
Frank, Martin Spiess, Luigi Mariani, Paul Jenö, Jean-Louis Boulay, Gregor Hutter  
Quantitative proteomics reveals reduction of endocytic machinery components in gliomas  
<https://doi.org/10.1016/j.ebiom.2019.07.039>  
PMID: 31331834



EB11875 (0.03 $\mu$ g/ml) staining of Human Frontal cortex lysate (35 $\mu$ g protein in RIPA buffer). Detected by chemiluminescence.



EB11875 (7 $\mu$ g/ml) staining of paraffin embedded Human Cerebellum. Heat induced antigen retrieval with citrate buffer pH 6, HRP-staining.



EB11875 Negative Control showing staining of paraffin embedded Human Cerebellum, with no primary antibody.